In re Application of Ming-Hau Lee et al. Serial No.: 09/776,981 Filed: February 5, 2001 Reply to Office Action mailed May 5, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A method for conserving power for operating an M row x N column array of processor cells, comprising:

providing a row mask signal configured to enable selected cells in each row of the array; providing a column mask signal configured to enable selected cells in each column of the array; and

gating the row mask signal and column mask signal with a clock signal of each cell to activate, at the next clock cycle, the enabled cells in the array based on the row mask signal and column mask signal.

- 2. (Original) The method of claim 1, further comprising broadcasting a context instruction to each enabled cell.
- 3. (Original) The method of claim 2, further comprising executing, during the clock cycle, the context instruction with only the activated cells in the array.
- 4. (Original) The method of claim 1, further comprising updating the row mask signal and the column mask signal during each clock cycle.
- 5. (Previously Presented) A method for saving power in an MxN array of processor cells, wherein each cell is configured to execute a context instruction when active, the method comprising:

masking an MxN array of processor cells using a plurality of control signals to enable a subset of cells of the array;

activating each enabled cell to execute the context instruction; and disabling each unmasked cell in the array, such that each disabled cell does not consume power.

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- 6. (Original) A power-saving arrangement for an MxN array of processor cells, comprising:
- a row mask register configured to provide a row mask signal for enabling selected cells in each row of the array;
- a column mask register configured to provide a column mask signal for enabling selected cells in each column of the array; and
- a clock circuit, connected to supply each cell with a clock signal, each clock signal being gated with the row mask signal and column mask signal to activate the enabled cells upon a new clock cycle.
- 7. (Original) The arrangement of claim 6, wherein the row mask register is an M-bit register.
- 8. (Original) The arrangement of claim 6, wherein the column mask register is an N-bit register.
- (Original) The arrangement of claim 6, further comprising a mask generator for generating a mask signal to the row mask register and the column mask register.
- 10. (Original) The arrangement of claim 6, further comprising a context instruction generator for generating and supplying a context instruction to each enabled cell for execution when the cell is activated.
- 11. (Original) A power saving arrangement for an MxN array of processor cells, comprising:
- a mask circuit for generating a mask signal for masking a portion of the cells in the array; and
- a clock for providing a clock signal, the clock signal being gated with the mask signal to activate the masked cells upon a new clock cycle.
- 12. (Original) The arrangement of claim 11, wherein the mask circuit further comprises:
 - a row mask register connected to each row of cells, and
 - a column mask register connected to each column of cells.

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- 13. (Original) The arrangement of claim 12, wherein the mask signal includes an M-bit row mask signal and an N-bit column mask signal.
- 14. (Original) The arrangement of claim 13, wherein the row mask signal and column mask signal are gated together at an input to each cell.
- 15. (Original) The arrangement of claim 11, wherein the mask signal is configured to enable the masked cells.